

SCREENING ASSAYS USING INTRAMITOCHONDRIAL CALCIUM

## ABSTRACT OF THE INVENTION

The invention provides methods for screening for agents that modulate mitochondrial function and in particular mitochondrial regulation of intracellular calcium. The methods may be used to detect agents that bind to a mitochondrial calcium uniporter and may also detect inhibitors or uncouplers of mitochondrial respiration. Agents identified using the screens provided herein have application in the prevention and treatment of a variety of diseases associated with abnormal mitochondrial function.

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